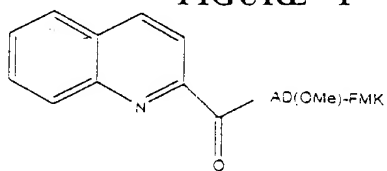
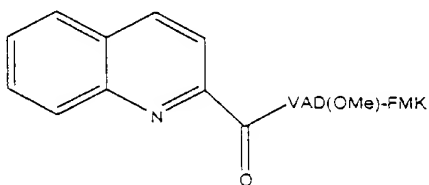


FIGURE 1



Quin-AD(OMe)-FMK M.Wt:389

FIGURE 1A



Quin-VAD(OMe)-FMK
M.Wt:488; C₂₄H₁₉N₄O₆F

FIGURE 2

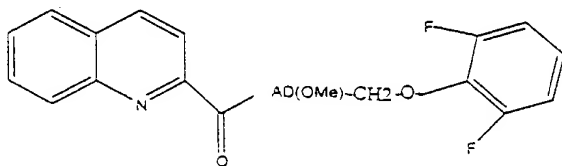
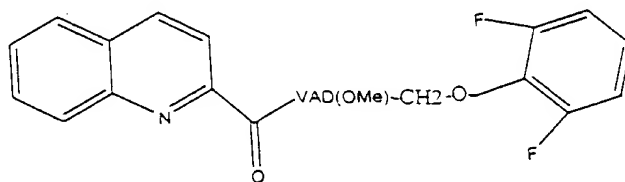


FIGURE 2A



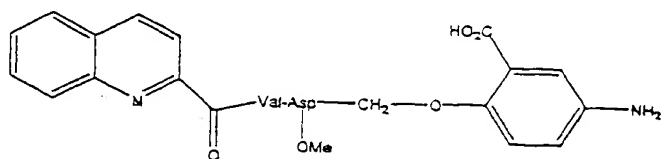


FIGURE 3

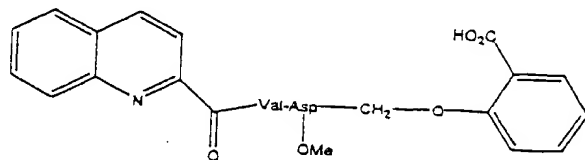


FIGURE 4

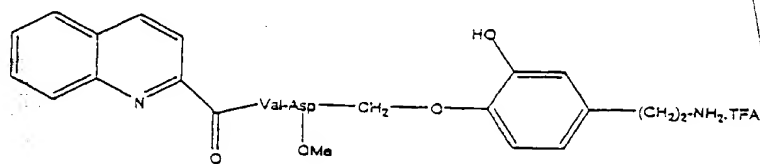


FIGURE 5

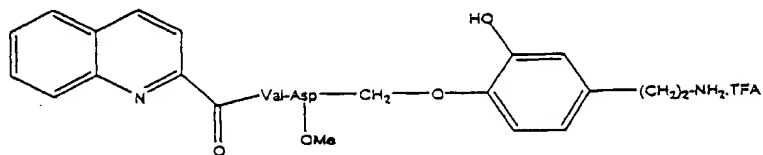


FIGURE 6

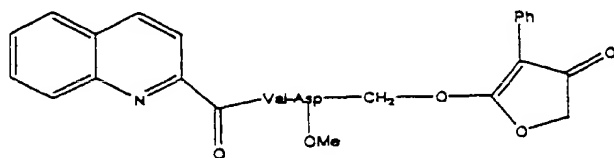


FIGURE 7

FIGURE 8

Caspase 9

inh conc log of con % inhib

0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	0
1uM	-1	0
0.5uM	-0.301	0
1uM	0	16.2
2.5uM	0.3979	21.8
5uM	0.6989	47.4
10uM	1	62
25uM	1.398	82.4
50uM	1.6989	92.6

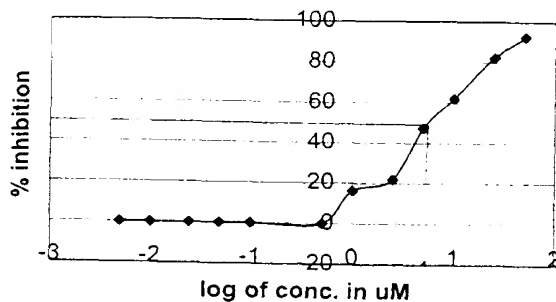
Q-(C=O)-VD(OMe)-CH₂-ASA

FIGURE 9

Caspase 8

inh conc log of con % inhib

0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	4.7
1uM	0	5.5
2.5uM	0.3979	21.1
5uM	0.6989	45.5
10uM	1	73.6
25uM	1.398	96.8
50uM	1.6989	99.8

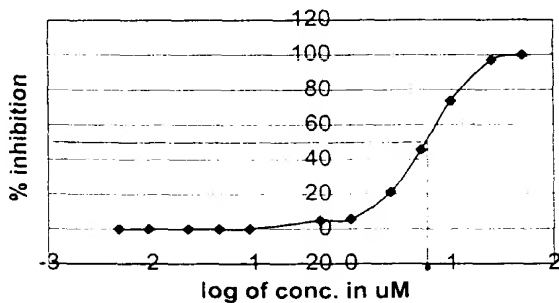
Q-(C=O)-VD(OMe)-CH₂-ASA

FIGURE 10

Caspase 1

inh conc	log of con	% inhib
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	18.2
1uM	0	34.8
2.5uM	0.3979	69.7
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

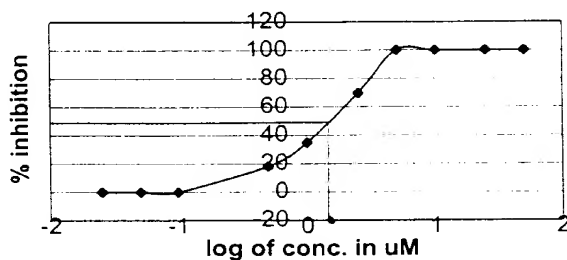
Q-(C=O)-VD(OMe)-CH₂-ASA

FIGURE 11

Caspase 3

inh conc	log of con	% inhib
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	2.3
.05uM	-1.301	9.1
.1uM	-1	6.4
0.5uM	-0.301	29.3
1uM	0	45
2.5uM	0.3979	74.8
5uM	0.6989	91.5
10uM	1	98.2
25uM	1.398	100
50uM	1.6989	100

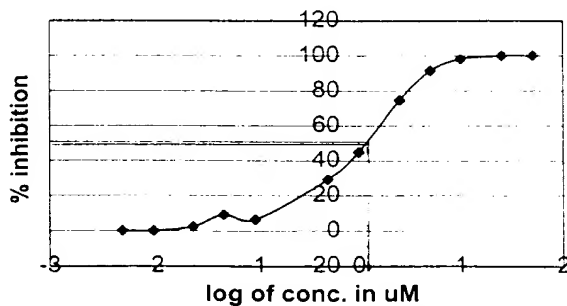
Q-(C=O)-VD(OMe)-CH₂-ASA

FIGURE 12

Caspase 1

inh conc	log of con	% inhib
.0025uM	-2.602	3.14
.005uM	-2.301	2.6
.01uM	-2	1.4
.025uM	-1.602	10.3
.05uM	-1.301	8.3
.1uM	-1	23.7
0.5uM	-0.301	50.9
1uM	0	66.29
2.5uM	0.3979	90.3
5uM	0.6989	96.3
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

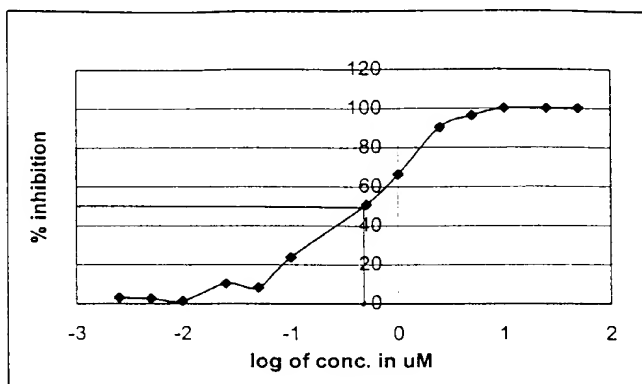
Indole-(C=O)-VD(OMe)-CH₂-OPh

FIGURE 13

Caspase 1

inh conc	log of con	% inhib
.0025uM	-2.602	16.3
.005uM	-2.301	19.4
.01uM	-2	22.6
.025uM	-1.602	42.86
.1uM	-1	44
0.5uM	-0.301	74
1uM	0	87.4
2.5uM	0.3979	97.1
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

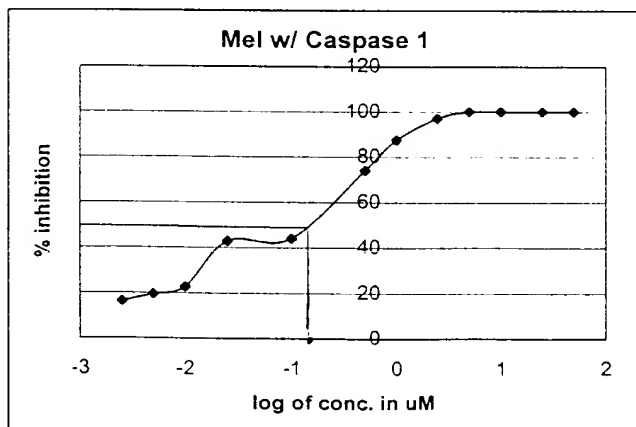
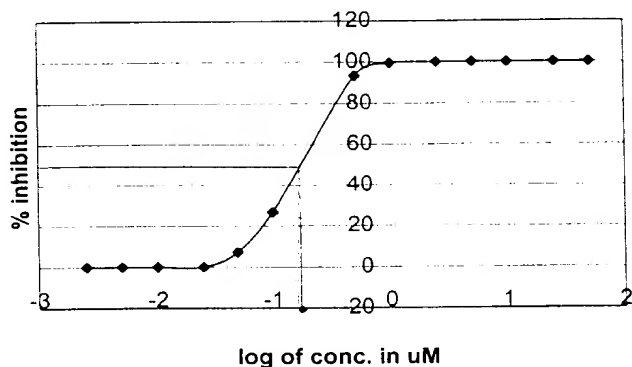
Melatonin-VD(OMe)-CH₂-OPh

FIGURE 14

Caspase 1

Bzl-Melatonin-VD(OMe)-CH₂-OPh

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	7.3
.1uM	-1	26.8
0.5uM	-0.301	93.4
1uM	0	99.6
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

**FIGURE 15**

Caspase 1

HydroxyTryptophan-VD(OMe)-CH₂-OPh

inh conc	log of con	% inhib
0.0025uM	-2.602	38.4
0.005uM	-2.301	25.7
0.01uM	-2	29.6
.025uM	-1.602	23
.05uM	-1.301	44.3
0.5uM	-0.301	57.2
1uM	0	91.4
2.5uM	0.3979	95
5uM	0.6989	96.9

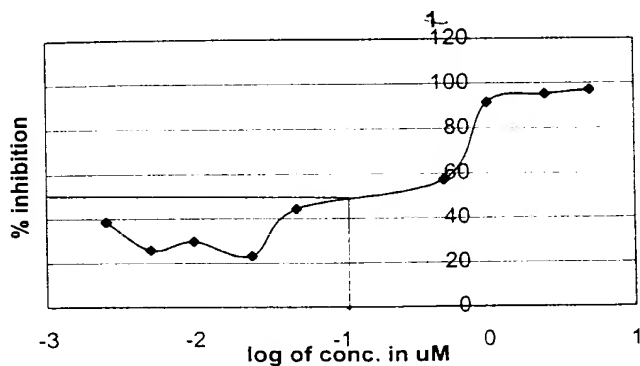


FIGURE 16

TRP-VD(OCH₃)-CH₂-OPh · TFA

Caspase 1

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	20.7
0.5uM	-0.301	42.7
1uM	0	81.7
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

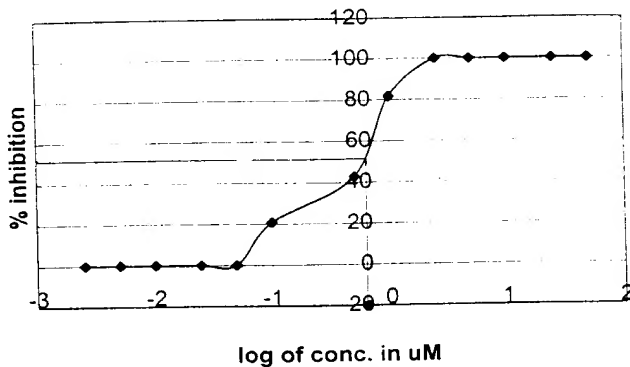
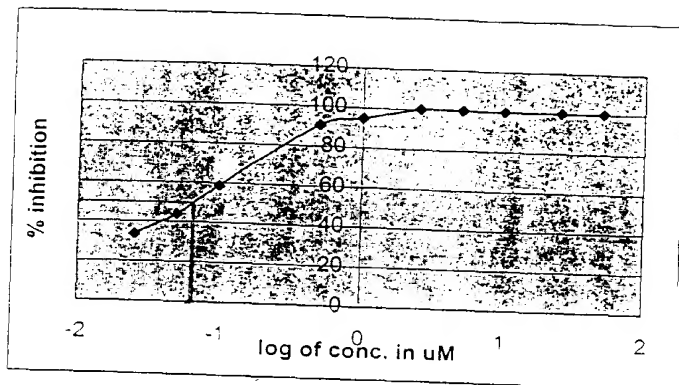


FIGURE 17A

Caspase 9

Q-(C=O)-L-D-(OMe)-CH₂-F (the FMK)

inh conc	log of conc	% inhib
0.025uM	-1.602	33.6
0.05uM	-1.301	43.9
0.1uM	-1	58.7
0.5uM	-0.301	90.7
1uM	0	94.7
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

**FIGURE 17B**

Caspase 9

Q-(C=O)-L-D-(OMe)-CH₂-F (the FMK)

inh conc	log of conc	% inhib
0.025uM	-1.602	25.7
0.05uM	-1.301	37.3
0.1uM	-1	58.9
0.5uM	-0.301	88.9
1uM	0	94.9
2.5uM	0.3979	96.1
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

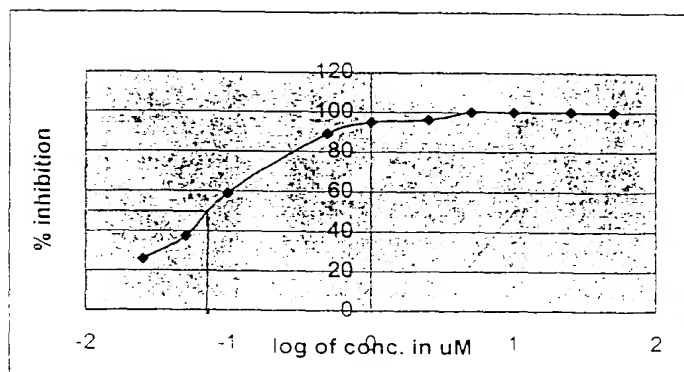


FIGURE 18A

Caspase 9

 $Q-(C=O)-V-D-(OCH_3)-CH_2-F$ (the FMK)

conc	log of conc	% inhib
0.025uM	-1.602	47.3
0.05uM	-1.301	64.4
0.1uM	-1	81.2
0.5uM	-0.301	97.8
1uM	0	99.5
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

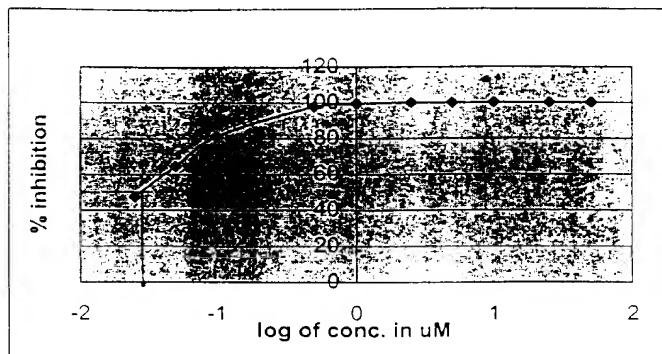


FIGURE 18B

Caspase 9

 $Q-(C=O)-V-D-(OCH_3)-CH_2-F$ (the FMK)

conc	log of conc	% inhib
0.025uM	-1.602	62.2
0.05uM	-1.301	76.3
0.1uM	-1	81.3
0.5uM	-0.301	99.1
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

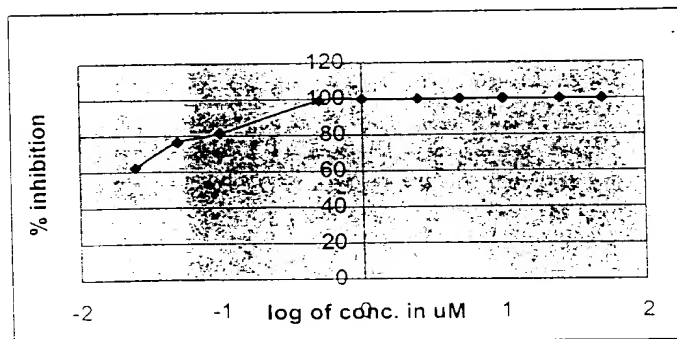


FIGURE 19

Caspase 1

Q-(C=O)-VD(OMe)-CH₂-SA

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	3.2
0.01uM	-2	0
.025uM	-1.602	1.1
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	15.3
1uM	0	33.7
2.5uM	0.3979	72.1
5uM	0.6989	97.4
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

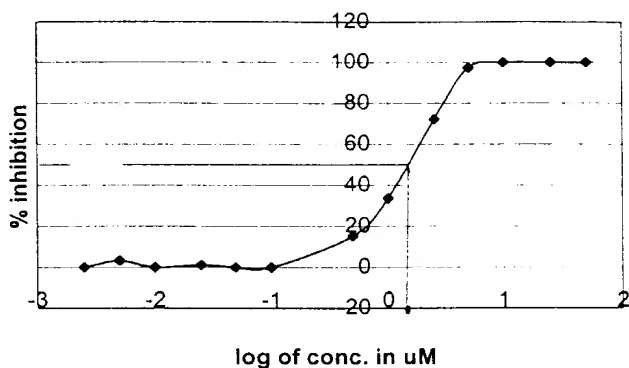


FIGURE 20

Caspase 3

Q-(C=O)-VD(OMe)-CH₂-SA

inh conc log of con % inhib

0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0.57
.05uM	-1.301	2.8
.1uM	-1	18.3
0.5uM	-0.301	32.4
1uM	0	54.7
2.5uM	0.3979	87.8
5uM	0.6989	97.6
10uM	1	99.7
25uM	1.398	100
50uM	1.6989	100

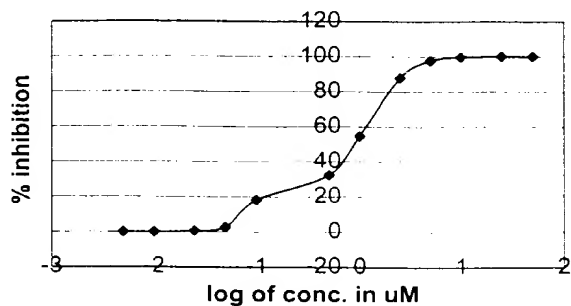


FIGURE 21



Caspase 1

inh conc	log of conc	% inhib
0.025uM	-1.602	19
0.05uM	-1.301	22
0.1uM	-1	19
0.5uM	-0.301	46.7
1uM	0	69.5
2.5uM	0.3979	92.7
5uM	0.6989	98.5
10uM	1	87.3

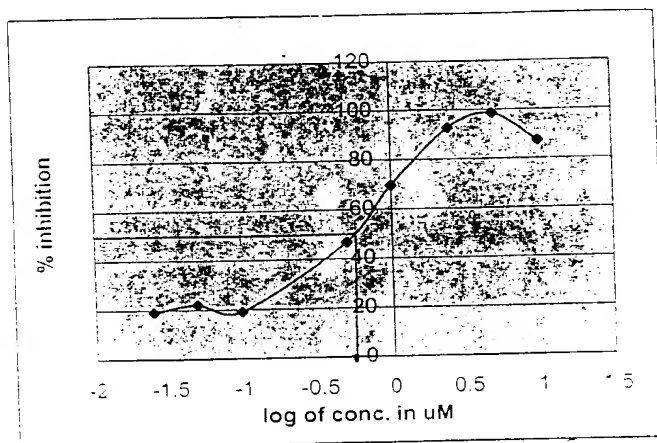


FIGURE 22



Caspase 1

inh conc	log of conc	% inhib
0.025uM	-1.602	39.8
0.05uM	-1.301	55.98
0.1uM	-1	67.2
0.5uM	-0.301	95.8
1uM	0	98.5
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100

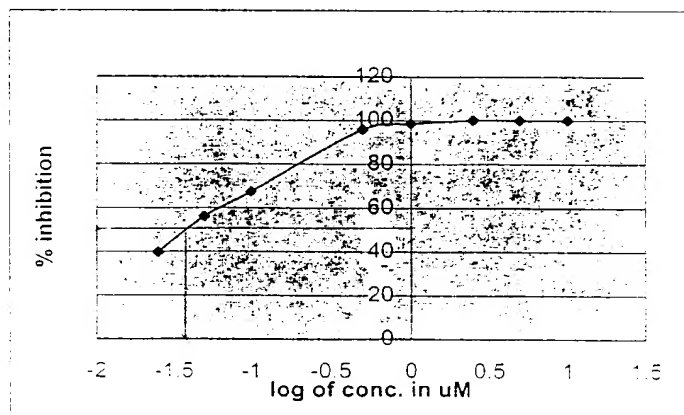


FIGURE 25A

Non esterase treated Inhibitor D with Caspase 3

inh conc	log of con	% inhib
0.025uM	-1.602	37.8
0.05uM	-1.301	52
0.1uM	-1	73
0.5uM	-0.301	100
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

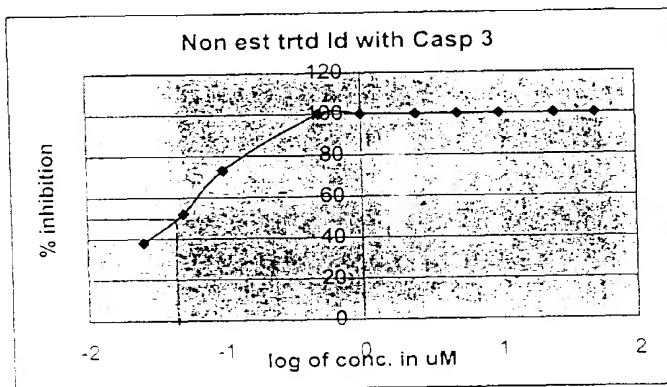
Q-(C=O)-L-D-(OMe)-CH₂-F

FIGURE 25B

Esterase treated Inhibitor D with Caspase 3

inh conc	log of con	% inhib
0.025uM	-1.602	38.2
0.05uM	-1.301	68.9
0.1uM	-1	80.7
0.5uM	-0.301	97.6
1uM	0	98.6
2.5uM	0.3979	96.2
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

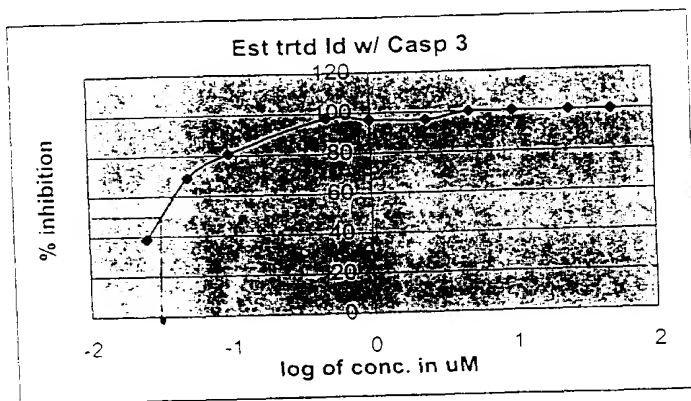
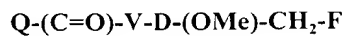
Q-(C=O)-L-D-(OMe)-CH₂-F

FIGURE 23

Esterase treated Inhibitor C with Caspase 1



inh conc	log of con	% inhib
0.025uM	-1.602	40.1
0.05uM	-1.301	54.9
0.1uM	-1	73.2
0.5uM	-0.301	81.7
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

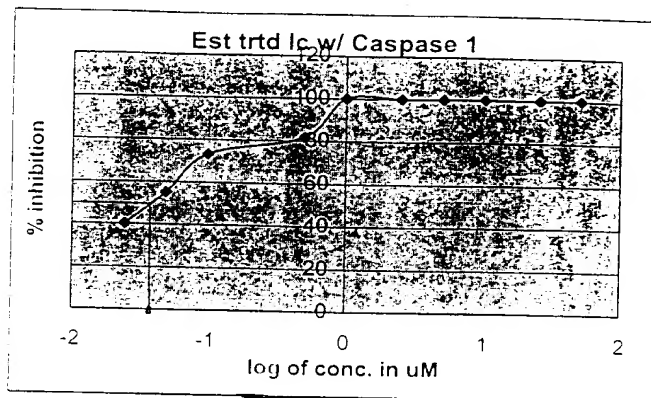
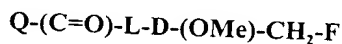


FIGURE 24

Esterase treated Inhibitor D with Casp 1



inh conc	log of con	% inhib
0.025uM	-1.602	0
0.05uM	-1.301	33.8
0.1uM	-1	63.4
0.5uM	-0.301	85.2
2.5uM	0.3979	85.2
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

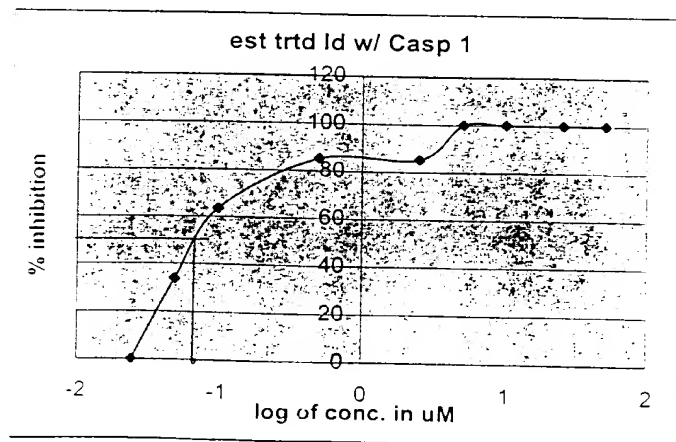


FIGURE 26

Q-LD-OPh

0.05 uM	-1.301	5.5
0.1 uM	-1	11
0.5 uM	-0.301	46
1 uM	0	68
2.5 uM	0.3979	86.8
5 uM	0.6989	94.5
10 uM	1	100
25 uM	1.3979	100
50 uM	1.6989	100

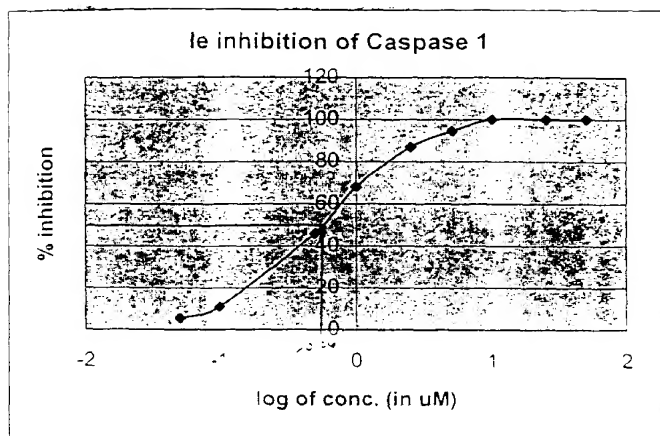


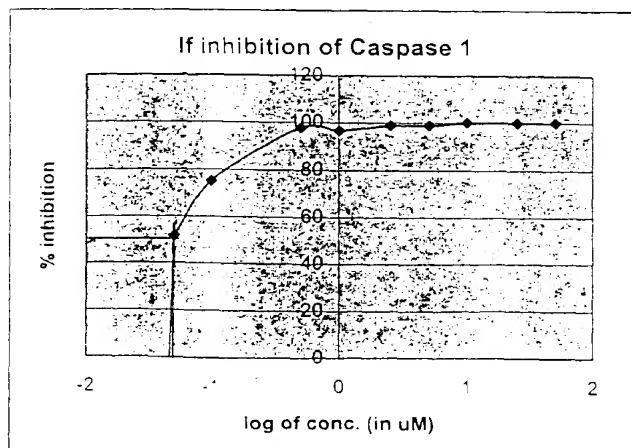
FIGURE 27

Q-VD-OPh

IC₅₀ (uM)

0.05 uM	-1.301	51.6
0.1 uM	-1	75
0.5 uM	-0.301	97.8
1 uM	0	96.7
2.5 uM	0.3979	98.9
5 uM	0.6989	98.9
10 uM	1	100
25 uM	1.3979	100
50 uM	1.6989	100

% inhibition



Caspase 3 w/ IE .

Q-(C=O)-LD-CH₂-O-Ph

inh conc	log of con	% inhib
.025uM	-1.602	31.85
.05uM	-1.301	47.1
.1uM	-1	59.2
0.5uM	-0.301	96.2
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.699	100

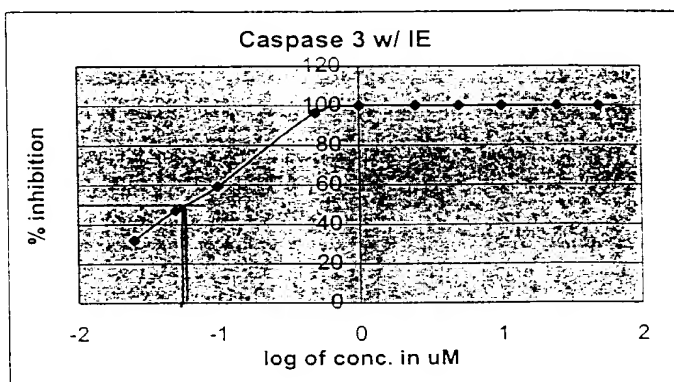
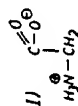
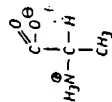
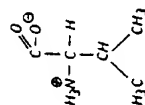
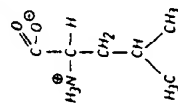
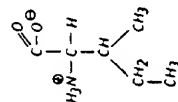
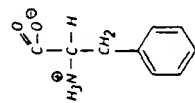
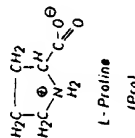
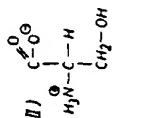
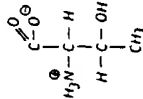
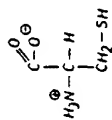
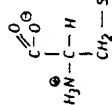
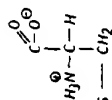
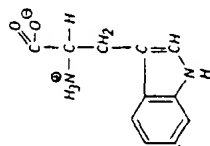
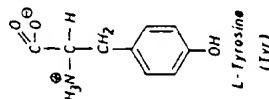
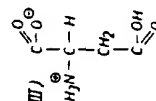
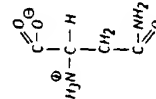
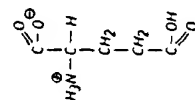
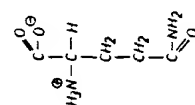
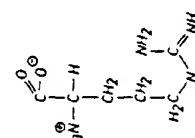
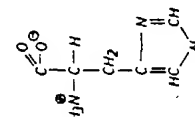


FIGURE 28

FIGURE 29

IMPORTANT AMINO ACIDS

Glycine
(Gly)L-Alanine
(Ala)L-Valine
(Val)L-Leucine
(Leu)L-Isoleucine
(Ileu)L-Phenylalanine
(Phe)L-Proline
(Pro)L-Serine
(Ser)L-Threonine
(Thre)L-Cysteine
(Cys-SH)L-Cystine
(Cys-S-S-Cys)L-Methionine
(Meth)L-Tryptophan
(Try)L-Tyrosine
(Tyr)L-Aspartic acid
(Asp)L-Asparagine
(Asp-NH₂)L-Glutamic acid
(Glu)L-Glutamine
(Glu-NH₂)L-Lysine
(Lys)L-Arginine
(Arg)L-Histidine
(His)